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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/762,720	11/20/2001	Donald Evan Macnally	30019.70USWO	7538

8791 7590 06/17/2005

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EXAMINER
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BUI, BING Q

ART UNIT	PAPER NUMBER
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2642

DATE MAILED: 06/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/762,720	<b>Applicant(s)</b> MACNALLY ET AL.	
	<b>Examiner</b> Bing Q. Bui	<b>Art Unit</b> 2642	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 08 February 2001.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 November 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>3/12/01 &amp; 5/10/01</u> . | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Response to Amendment***

1. Applicant's Preliminary Amendment filed on 02/08/2001 has been entered. No claims have been amended. No claims have been cancelled. No claims have been added. Claims 1-6 are still pending in this application, wherein claims 1 and 5 being independent.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 1-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Van Der Tuijn (US Pat No. 6,411,611).

Regarding claim 1, referring to claim 7, Van Der Tuijn teaches a single-chip direct conversion transceiver, comprising:

an RF circuit (see fig 7; and col. 9, ln 14-col. 10, ln 29);

a transmitter having a synthesizer (see fig 7; and col. 9, ln 14-col. 10, ln 29);

a receiver having a baseband filter and a demodulator (see fig 7; and col. 9, ln 14-col. 10, ln 29); and

wherein the synthesizer is coupled to the RF circuit, the baseband filter is coupled to the RF circuit, and the demodulator is coupled to the baseband filter (see fig 7; and col. 9, ln 14-col. 10, ln 29).

Regarding claim 2, referring to claim 7, Van Der Tuijn the transceiver of claim 1, further comprising a time-division duplex (TDD) circuit for ensuring isolating between the transmitter and the receiver (see fig 7; and col. 9, ln 14-col. 10, ln 29).

Regarding claim 3, referring to claim 7, Van Der Tuijn the transceiver of claim 1, wherein the transmitter and the receiver share the same RF port which interfaces with an external antenna (see fig 7; and col. 9, ln 14-col. 10, ln 29).

Regarding claim 4, referring to claim 7, Van Der Tuijn the transceiver of claim 1, wherein the synthesizer performs FSK modulation (see fig 7; and col. 9, ln 14-col. 10, ln 29).

Regarding claim 5, referring to claim 7, Van Der Tuijn a single-chip direct conversion receiver, comprising:

an RF circuit (see fig 7; and col. 9, ln 14-col. 10, ln 29);

a baseband filter and a demodulator (see fig 7; and col. 9, ln 14-col. 10, ln 29);  
and

wherein the baseband filter is coupled to the RF circuit, and the demodulator is coupled to the baseband filter (see fig 7; and col. 9, ln 14-col. 10, ln 29).

Regarding claim 6, referring to claim 7, Van Der Tuijn receiver of claim 5, wherein the demodulator performs FSK modulation (see fig 7; and col. 9, ln 14-col. 10, ln 29).

### ***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patents are cited to further show the state of the art in general:

U.S. Pat. No. 6,600,662

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bing Bui whose telephone number is (571) 272-7482. The examiner can normally be reached on Monday through Thursday from 7:30 to 5:00.

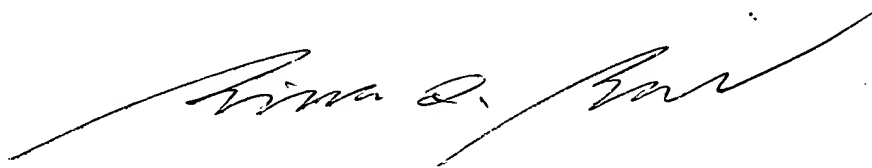
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad Matar, can be reached on (571) 272-7488. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306 and for formal communications intended for entry (please label the response

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☐EXPEDITED PROCEDURE☐) or for informal or draft communications not intended for entry (please label the response "PROPOSED" or "DRAFT").

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

09 June 2005

A handwritten signature in black ink, appearing to read 'Bing Q. Bui', with a long, sweeping horizontal line extending from the end of the signature.

**BING Q. BUI**  
**PRIMARY EXAMINER**